

Notice of Allowability

Application No.

09/668,219

Examiner

Anh-Vu H. Ly

Applicant(s)

LI, YUNZHOU

Art Unit

2667

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed March 13, 2006.
2. ☒ The allowed claim(s) is/are 6, 8-13, 15-18, 30, 32-37, 39-43, 45, 47-51, and 53-56 renumbered as 1-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date March 16, 2006.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Holmes W. Anderson on March 16, 2006.

The application has been amended as follows:

In The Claims

37. (Currently Amended) ~~A program product comprising a~~ A computer readable medium having embodied therein a computer program to be executed by a processor for storing data, the ~~computer program~~ comprising:

bridge pre-establishment logic programmed to create a bridged routing table separate from a main routing table, the main routing table for routing network traffic, the bridged routing table for bridging the network traffic over both a first communication interface and a second interface from among a plurality of communication interfaces before a bridge is needed between the first communication interface and the second interface; and

bridge establishment logic programmed to establish a bridge between the first communication interface and the second communication interface using the pre-established bridged routing table upon determining that a bridge is needed between the first communication interface and the second communication interface,

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wherein the bridge pre-establishment logic is programmed to create the bridged routing table by finding in the main routing table a number of main routing entries having the first communication interface as an outgoing interface and creating in the bridged routing table a corresponding bridged routing entry for each of said number of main routing entries, wherein each bridged routing entry includes all outgoing interfaces from its corresponding main routing entry and further includes the second communication interface as an outgoing interface.

Claims 39-43, in line 1, replace "The computer program" with --The computer readable medium--.

44. (Canceled).

51. (Currently Amended) ~~A program product comprising a~~ A computer readable medium having embodied therein a computer program to be executed by a processor ~~for storing data, the computer program comprising:~~

bridge pre-establishment logic programmed to create a bridged routing table separate from a main routing table, the main routing table for routing network traffic, the bridged routing table for bridging the network traffic over each communication interface of a number of communication interface pairs, where each communication interface pair represents a working communication interface and a corresponding protection communication interface from among the plurality of communication interfaces; and

bridge establishment logic programmed to establish a bridge between a working communication interface and a corresponding protection communication interface using the bridged routing table associated with the working communication interface and corresponding

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protection communication interface upon detecting a failure affecting communication over the working communication interface,

wherein the bridge pre-establishment logic is programmed to create a bridged routing table for a communication interface pair by finding in the main routing table a number of main routing entries having the working communication interface as an outgoing interface and creating in the bridged routing table a corresponding bridged routing entry for each of said number of main routing entries, wherein each bridged routing entry includes all outgoing interfaces from its corresponding main routing entry and further includes the protection communication interface as an outgoing interface.

Claims 53-56, in line 1, replace "The computer program" with --The computer readable medium--.

57. (Canceled).

Allowable Subject Matter

2. Claims 6, 8-13, 15-18, 30, 32-37, 39-43, 45, 47-51, and 53-56 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not teach or fairly suggest finding in the main routing table a number of main routing entries having the first communication interface as an outgoing interface and creating in the bridged routing table a corresponding bridged routing entry for each of said number of main routing entries, wherein each bridged routing entry includes all outgoing interfaces from its corresponding main routing entry and further includes the second communication interface as an outgoing interface, as specified in independent claims 6, 13, 30, 37, 45, and 51.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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CHI PHAM
SUPERVISORY PATENT EXAMINER
3/17/06